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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,371	09/11/2003	Chi-Hwa Ho	TOP 321	3013

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EXAMINER

RIVERO, MINERVA

ART UNIT

PAPER NUMBER

2627

DATE MAILED: 08/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/659,371

Applicant(s)

HO ET AL.

Examiner

Minerva Rivero

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 May 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) 1-12 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 13-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Election/Restrictions

2. ¹⁻¹² Claims ~~1-12~~ are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 5/19/06.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Seo *et al.* (US Patent 6,295,255), hereinafter Seo.

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5. Regarding claim 13, Seo discloses a device for adjusting an optical axis of an optical disc drive, comprising:

a plurality of reflecting members disposed on the optical disc drive (Col. 2, Lines 15-18); and

a laser collimator for emitting a laser light on the reflecting members and measuring a normal vector of a base of the optical disc drive and a normal vector of a turntable of the optical disc drive (Col. 5, Lines 14-17; *controlling the objective lens so that the light is perpendicularly incident at all times*, Col. 2, Lines 17-20).

6. Regarding claim 14, Seo discloses an adjusting unit for adjustment of adjusting screws of the optical disc drive so that a first bar of the optical disc drive is parallel to a second bar of the optical disc drive and an optical axis of an optical pickup of the optical disc drive is parallel to the normal vector of the turntable (*tightening of adjusting screws*, Col.1, Lines 49-61).

7. Regarding claim 15, Seo discloses a surface, facing the laser collimator, of each of the reflecting members is made of reflective material (*reflective mirror and collimating lens*, Col. 7, Lines 13-19, see Fig. 12, elements 180a and 140a).

8. Regarding claim 16, Seo discloses the laser collimator includes an image pickup for obtaining a light point reflected back to the laser collimator from the reflecting members to form images (*photodetector*, Col. 7, Line 17).

Regarding claim 17, Seo discloses a beam splitter, disposed between the laser collimator and the reflecting members, for guiding the laser light emitted from the laser collimator to a predetermined position on each of the reflecting members (*beam splitter*, Col. 7, Line 16, see Fig. 12, element 130a).

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Knudsen *et al.* (US 6,353,590) disclose a media stabilization system for laser servowriting.

Lee (US Patent 5,956,188) discloses a tilt-adjusting structure for an axial slide type optical disk pickup actuator.

Park (US Patent 6,014,362) discloses a phase-shift and tilt adjustable disk player.

Sogawa *et al.* (US Patent 6,493,309) disclose a pickup adjusting mechanism for a disc player.

Takemoto (US 6,744,716) discloses a pickup moving mechanism for optical disk apparatus and pickup moving method therefor.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minerva Rivero whose telephone number is (571) 272-7626. The examiner can normally be reached on Monday-Friday 9:00 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

WAYNE YOUNG
SUPERVISORY PATENT EXAMINER

MR 7/25/06

A handwritten signature in black ink, appearing to be 'W. Young', written over the printed name and title.